CLAIMS

1. A member for a semiconductor device comprising a base member made of an alloy or composite mainly composed of Cu and W and/or Mo, wherein a coating layer made of a hard carbon film is provided on at least a surface of the base member on which another member for the semiconductor device is bonded with a resin.

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- 2. The member for a semiconductor device according to claim 1, wherein the alloy or composite mainly composed of Cu and W and/or Mo contains Cu of 5 to 40% by weight.
- 3. A member for a semiconductor device comprising a base member made of an alloy or composite mainly composed of Al-SiC, wherein a coating layer made of a hard carbon film is provided on at least a surface of the base member on which another member for the semiconductor device is bonded with a resin.
- 4. The member for a semiconductor device according to claim 3, wherein the alloy or composite mainly composed of Al-SiC contains SiC of 10 to 70% by weight.
- 5. A member for a semiconductor device comprising a base member made of an alloy or composite mainly composed of Si-SiC, wherein a coating layer made of a hard carbon film is provided on at least a surface of the base member on which another member for the semiconductor device is bonded with a resin.

- 6. The member for a semiconductor device according to claim 5, wherein the alloy or composite mainly composed of Si·SiC contains Si of 10 to 35% by weight.
- 7. The member for a semiconductor device according to any one of claims 1 to 6, wherein the coating layer has a thickness of 0.1 to 10 μ m.

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- 8. The member for a semiconductor device according to any one of claims 1 to 7, wherein the surface of the base member on which the coating layer is formed has a surface roughness of 0.1 to $20~\mu m$ in Rmax.
- 9. The member for a semiconductor device according to any one of claims 1 to 8, wherein pores in the surface of the base member on which the coating layer is formed have a depth of 100 µm or less.
 - 10. The member for a semiconductor device according to any one of claims 1 to 9, wherein a plating layer of Ni is provided between the coating layer and the surface of the base member on which the coating layer is formed.
- 15 11. A semiconductor device employing the member for a semiconductor device according to any one of claims 1 to 10.